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CSE-BD Sec-I2

Topic-PL/SQL (Triggers)

QUESTIONS:

1)Create a table bank with columns cno, cname, acctype, interest amount and balance. In which cno declared as primary key and balance declared as not null. To write a trigger that should allow only the upper case letters for customer name while inserting, otherwise it should display a message 'Enter upper case value for customer name'.

CODE-

```
mysql> create table bank (
    -> cno int primary key,
    -> cname varchar(20),
    -> Act_type varchar(20),
    -> interest int,
    -> balance int not null
    -> )
    -> ;
[Query OK, 0 rows affected (0.01 sec)

mysql>  insert into bank values( 01,'Raja','Fixed',35000,25000);
Query OK, 1 row affected (0.00 sec)

mysql>  insert into bank values( 03,'Rahul','Fixed',87000,56000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into bank values( 05,'Vishnu','Temp',15000,17000);
[Query OK, 1 row affected (0.00 sec)

mysql> select * from bank;
+-----+--------+----------+----------+---------+
| cno | cname  | Act_type | interest | balance |
+-----+--------+----------+----------+---------+
|   1 | Raja   | Fixed    |    35000 |   25000 |
|   3 | Rahul  | Fixed    |    87000 |   56000 |
|   5 | Vishnu | Temp     |    15000 |   17000 |
+-----+--------+----------+----------+---------+
3 rows in set (0.00 sec)

mysql>  delimiter //
[mysql> create trigger before_insert_bank
[    -> before insert on bank for each row
[    -> begin
[    -> declare error_msg varchar(300);
[    -> set error_msg =("Enter upper case value for customer name||");
[    -> if new.cname <> binary UPPER(new.cname)
[    -> then signal sqlstate '45000'
[    -> set message_text=error_msg;
[    -> end if;
[    -> end //
[Query OK, 0 rows affected (0.01 sec)
```

OUTPUT –

-)trigger executed when customer name when in lowercase

```
[mysql> insert into bank values(05,'Umang','Temp',98000,34000);
 ERROR 1644 (45000): Enter upper case value for customer name||
```

-)no trigger executed when customer name when in uppercase

```
mysql> insert into bank values(09,'UMANG','Temp',98000,34000);
Query OK, 1 row affected (0.00 sec)
```

RESULT –

Hence we have successfully created, triggered and executed the program.